RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/559.647
Source:	IFWP
Date Processed by STIC:	12/16/05

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 12/16/2005 PATENT APPLICATION: US/10/559,647 TIME: 15:39:57

Input Set : A:\ISPH0595USASEQ.txt

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3 <110> APPLICANT: Isis Pharmaceuticals Inc.
              Rosanne M. Crooke
              Mark J. Graham
      7 <120> TITLE OF INVENTION: MODULATION OF APOLIPOPROTEIN(A) EXPRESSION
      9 <130> FILE REFERENCE: ISPH-0595WO2
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/559,647
C--> 11 <141> CURRENT FILING DATE: 2005-12-02
     11 <150> PRIOR APPLICATION NUMBER: 09/923,515
     12 <151> PRIOR FILING DATE: 2001-08-07
     14 <150> PRIOR APPLICATION NUMBER: 60/475,402
     15 <151> PRIOR FILING DATE: 2003-06-02
     17 <160> NUMBER OF SEQ ID NOS: 100
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     21 <212> TYPE: DNA
     22 <213> ORGANISM: Artificial Sequence
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     25 <223> OTHER INFORMATION: Antisense Oligonucleotide
     27 <400> SEQUENCE: 1
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     33 <212> TYPE: DNA
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     39 <400> SEQUENCE: 2
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     58 <213> ORGANISM: H. sapiens
     60 <220> FEATURE:
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     62 <222> LOCATION: (46)...(13692)
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RAW SEQUENCE LISTING DATE: 12/16/2005 PATENT APPLICATION: US/10/559,647 TIME: 15:39:57

Input Set : A:\ISPH0595USASEQ.txt

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70 Glu Val Val Leu Leu Leu Leu Phe Leu Lys Ser Ala Ala Pro Glu 71 5 10 15 20	
73 caa agc cat gtg gtc cag gat tgc tac cat ggt gat gga cag agt tat 15	3
74 Gln Ser His Val Val Gln Asp Cys Tyr His Gly Asp Gly Gln Ser Tyr	-
75 25 30 35	
77 cga ggc acg tac tcc acc act gtc aca gga agg acc tgc caa gct tgg 20	1
78 Arg Gly Thr Tyr Ser Thr Thr Val Thr Gly Arg Thr Cys Gln Ala Trp	
79 40 45 50	
81 tca tct atg aca cca cat caa cat aat agg acc aca gaa aac tac cca 24	9
82 Ser Ser Met Thr Pro His Gln His Asn Arg Thr Thr Glu Asn Tyr Pro	
83 55 60 65	_
85 aat get gge ttg ate atg aac tae tge agg aat eea gat get gtg gea 29	7
86 Asn Ala Gly Leu Ile Met Asn Tyr Cys Arg Asn Pro Asp Ala Val Ala 87 70 75 80	
87 70 75 80 89 gct cct tat tgt tat acg agg gat ccc ggt gtc agg tgg gag tac tgc 34:	5
90 Ala Pro Tyr Cys Tyr Thr Arg Asp Pro Gly Val Arg Trp Glu Tyr Cys	,
91 85 90 95 100	
93 aac ctg acg caa tgc tca gac gca gaa ggg act gcc gtc gcg cct ccg 39	3
94 Asn Leu Thr Gln Cys Ser Asp Ala Glu Gly Thr Ala Val Ala Pro Pro	
95 105 110 115	
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98 Thr Val Thr Pro Val Pro Ser Leu Glu Ala Pro Ser Glu Gln Ala Pro	
99 120 125 130	
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102 Thr Glu Gln Arg Pro Gly Val Gln Glu Cys Tyr His Gly Asn Gly Gln 103 135 140 145	
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106 Ser Tyr Arg Gly Thr Tyr Ser Thr Thr Val Thr Gly Arg Thr Cys Gln	٠,
107 150 155 160	
109 gct tgg tca tct atg aca cca cac tcg cat agt cgg acc cca gaa tac 5	85
110 Ala Trp Ser Ser Met Thr Pro His Ser His Ser Arg Thr Pro Glu Tyr	
111 165 170 175 180	
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114 Tyr Pro Asn Ala Gly Leu Ile Met Asn Tyr Cys Arg Asn Pro Asp Ala	
115 185 190 195	
	81
118 Val Ala Ala Pro Tyr Cys Tyr Thr Arg Asp Pro Gly Val Arg Trp Glu 119 200 205 210	
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122 Tyr Cys Asn Leu Thr Gln Cys Ser Asp Ala Glu Gly Thr Ala Val Ala	
123 215 220 225	
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126 Pro Pro Thr Val Thr Pro Val Pro Ser Leu Glu Ala Pro Ser Glu Gln	

RAW SEQUENCE LISTING DATE: 12/16/2005
PATENT APPLICATION: US/10/559,647 TIME: 15:39:57

Input Set : A:\ISPH0595USASEQ.txt

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135					265					270					275		
137	tgc	caa	gct	tgg	tca	tct	atg	aca	cca	cac	tcg	cat	agt	cgg	acc	cca	921
138	Cys	Gln	Ala	Trp	Ser	Ser	Met	Thr	Pro	His	Ser	His	Ser	Arg	Thr	Pro	
139	_			280					285					290			
141	gaa	tac	tac	cca	aat	gct	ggc	ttg	atc	atg	aac	tac	tgc	agg	aat	cca	969
142	Glu	Tyr	Tyr	Pro	Asn	Ala	Gly	Leu	Ile	Met	Asn	Tyr	Cys	Arg	Asn	Pro	
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146	Asp	Āla	Val	Ala	Ala	Pro	Tyr	Cys	Tyr	Thr	Arg	Asp	Pro	Gly	Val	Arg	
147		310					315					320					
149	tgg	gag	tac	tgc	aac	ctg	acg	caa	tgc	tca	gac	gca	gaa	ggg	act	gcc	1065
150	Trp	Glu	Tyr	Cys	Asn	Leu	Thr	Gln	Cys	Ser	Asp	Ala	Glu	Gly	Thr	Ala	
151	325					330					335					340	
153	gtc	gcg	cct	ccg	act	gtt	acc	ccg	gtt	cca	agc	cta	gag	gct	cct	tcc	1113
154	Val	Ala	Pro	Pro	Thr	Val	Thr	Pro	Val	Pro	Ser	Leu	Glu	Ala	Pro	Ser	
155					345					350					355		
157	gaa	caa	gca	ccg	act	gag	caa	agg	cct	ggg	gtg	cag	gag	tgc	tac	cat	1161
158	Glu	Gln	Ala	Pro	Thr	Glu	Gln	Arg	Pro	Gly	Val	Gln	Glu	Cys	Tyr	His	
159				360					365					370			
161	ggt	aat	gga	cag	agt	tat	cga	ggc	aca	tac	tcc	acc	act	gtc	aca	gga	1209
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163			375					380					385				
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166	Arg	Thr	Cys	Gln	Ala	Trp	Ser	Ser	Met	Thr	${\tt Pro}$	His	Ser	His	Ser	Arg	
167		390					395					400					
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170	Thr	${\tt Pro}$	Glu	Tyr	Tyr	Pro	Asn	Ala	Gly	Leu	Ile	Met	Asn	Tyr	Cys	Arg	
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173	aat	cca	gat	gct	gtg	gca	gct	cct	tat	tgt	tat	acg	agg	gat	CCC	ggt	1353
174	Asn	${\tt Pro}$	Asp	Ala	Val	Ala	Ala-	Pro	Tyr	-Cys	Tyr	Thr	-Arg	Asp	Pro	Gly	
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178	Val	Arg	${\tt Trp}$	Glu	Tyr	Cys	Asn	Leu	Thr	Gln	Cys	Ser	Asp	Ala	Glu	Gly	
179				440					445					450			
181	act	gcc	gtc	gcg	cct	ccg	act	gtt	acc	ccg	gtt	cca	agc	cta	gag	gct	1449
182	Thr	Ala	Val	Ala	Pro	Pro	Thr	Val	Thr	Pro	Val	Pro	Ser	Leu	Glu	Ala	
183			455					460					465				
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187		470					475					480					
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	Tyr	His	Gly	Asn	Gly	Gln	Ser	Tyr	Arg	Gly		Tyr	Ser	Thr	Thr		
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193	aca	gga	aga	acc	tgc	caa	gct	tgg	tca	tct	atg	aca	cca	cac	tcg	cat	1593

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Input Set : A:\ISPH0595USASEQ.txt

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ser	Arg	Thr		GIu	lyr	Tyr	Pro		Ala	GIA	Leu	тте		Asn	Tyr	
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_				_	_		_	_							_	1689
Cys	Arg	Asn	Pro	Asp	Ala	Val	Ala	Ala	Pro	Tyr	Cys	Tyr	Thr	Arg	Asp	
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CCC	ggt	gtc	agg	tgg	gag	tac	tgc	aac	ctg	acg	caa	tgc	tca	gac	gca	1737
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Asn	Tyr	Cys	Arg	Asn	Pro	Asp	Ala	Val	Ala	Ala	Pro	\mathtt{Tyr}	Cys	Tyr	Thr	
645					650					655					660	
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Arg	Asp	Pro	Gly	Val	Arg	Trp	Glu	Tyr	Cys	Asn	Leu	Thr	Gln	Cys	Ser	
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ata	cad		tac	tac	cat	aat		ada	cad	agt	tat		aac	aca	tac	2217
																221,
Val		Gru	Cys	TYL	1113		TO II	GLY	GIII	DCI		nr 9	GLY	1111		
+ a a		2 0 ±	at a	202	~~		200	+ ~ ~	a aa	aat		+ 02	t at	ata	202	2265
			_			_		-		-				_		2203
	1111	TIII	vai	IIII	_	Arg	1111	Cys	GIII		ттр	ser	ser	Met		
725																2212
						200	cca	gaa	tac	tac	cça	aat	act	aac	LEG	2313
cca																
cca Pro				Ser					Tyr					Gly		
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	agt Ser tgc Cys ccc Pro gaa Glu 565 gag Glu act Thr tcg Ser aac Asn 645 agg Arg gac Asp ager gtgl tcc Ser	agt cgg Ser Arg tgc agg Cys Arg ccc ggt Pro Gly S50 gaa ggg Glu Gly S65 gag gct Glu Ala gag tgc Glu Cys act gtc Thr Val tcg cat Ser His 630 aac tac Asn Tyr 645 agg gat Arg Asp gac gca Asp Ala agc cta Ser Leu gtg Cag Val Gln tcc Ser Thr	agt cgg acc ser Arg Thr tgc agg ggt cct Glu Gly Thr 565	agt cgg acc cca Ser Arg Thr Pro tgc agg aat cca Cys Arg Asn Pro 535 ccc ggt gtc agg Pro Gly Val Arg 550 gaa ggg act gcc Glu Gly Thr Ala 565 gag gct cct tcc Glu Ala Pro Ser gag tgc tac cat Glu Cys Tyr His 600 act gtc aca gga Thr Val Thr Gly 615 tcg cat agt cgg Ser His Ser Arg 630 aac tac tgc agg Asn Tyr Cys Arg 645 agg gat ccc ggt Arg Asp Pro Gly gac gca gaa ggg Asp Ala Glu Gly agc cta gag gct Ser Leu Glu Ala 695 gtg cag gag tgc Val Gln Glu Cys 710 tcc acc act gtc Ser Thr Thr Val	agt cgg acc cca gaa ser Arg Thr Pro Glu tgc agg aat cca gat Cys Arg Asn Pro Asp ccc ggt gtc agg tgg pro Gly Val Arg Trp gaa ggg act gcc gtc gau ggg act gc gaa gau ggt tac cat gg gau tac cat ggt gau tac cat ggt gau tac cat ggt gau tac cat ggt gau tac cat gg act gg acc gau tac ac gau tac ac gau tac ac gau gg ac	agt cgg acc cca gaa tac ser Arg Thr Pro Glu Tyr tgc agg aat cca gat gct tgc agg aat cca gat gct ccc ggt gtc agg tgg gag gaa ggg act gcc gtc gag gaa ggg act gcc gtc gag gaa ggg act tcc gaa caa gaa ggg act tcc gaa caa gaa ggc cct tcc gaa caa gag tac cat ggt act gag tac cat ggt acc gag tac caa gg acc gag tac tac gag acc cca ger tac tac	agt cgg acc cca gaa tac tac Ser Arg Thr Pro Glu Tyr Tyr tgc agg aat cca gat gct gtg Cys Arg Asn Pro Asp Ala Val ccc ggt gtc agg tgg gag tac ccc ggt gtc agg tgg cat gc gaa ggg act gc gt gg cct gaa ggg act gc gg act gc gaa tgc tac ga caa ga cc gaa tgc tac ga caa ga gc gaa tgc tac ga aca ga ga ga ga ga tac tg ga ga ga tac tg ga ga	agt cgg acc cca gaa tac cca Ser Arg Thr Pro Glu Tyr Tyr Pro tgc agg aat cca gat gct gtg gca Cys Arg Asn Pro Asp Ala Val Ala ccc ggt gtc agg tgg gag tac tgc pro Gly Val Arg Trp Glu Tyr Cys gaa ggg act gcc gtc ccg cct cgg gaa ggg act gcc gtc ccg cct cgg cut cgg gaa ggt tac gga caa gaa gaa ccg cgg ccg cgg cag ca	agt cgg acc cca gaa tac cca aat Ser Arg Thr Pro Glu Tyr Tyr Pro Asn tgc agg aat cca gat gct gtg gct tgc Arg Arg tro Arg tro tro	agt cgg acc cca gaa tac cca aat gct Ser Arg Thr Pro Glu Tyr Tyr Pro Asn Ala Sec Agg acc gat gct gtg gca gct cct Cys Arg Asp Asp Ala Val Ala Ala Ala Pro Spro cct cct	agt cgg acc cca gaa tac cca aat gct ggg ggg <td>agt cgg acc cca gaa tac tac ggc ggc ttg Ser Arg Thr Pro cca gaa tac tac gca gct ggc ggc ggc ttg tgc agg aac cca gat gtc gtg gca gct ttg ttg ccc gtg gtg ggg gag tac ttg acc ct tat ttg ccc gtg gtg gag tac ttg acc ct tac ct ttg acg caa gac aaa aga aga aga aga <</td> <td>agt cgg ccc gaa tac cca aat gct ggc ttg atc cca aat gct ggc ttg atc cca aat gct ggc ttg lte lte<td>agt cgg acc cca gaa tac tac caca aca ged ggc ttg ttg thg stac cca gad tac tac cca ggd ttg ttg ttg stac cca gad tac tac 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cca gaa tac tac cca gaa tac cca ggc tgg tgg atc atg aac cca gaa tac cca gaa cca cca gaa cca cca gaa ccc cca gaa ccc cca gaa ccc gaa ccc cca gaa gcc ccc tac tac cca agg ccc ccc tac tac ccc gag ccc ccc dac ccc gag ccc ccc gag ccc gag ccc ccc gac cca gac cca gac cca gac ccc gac cca gac cca gac cca gac cca<td>agt cgg acc cga tac tac cac aat gct ggc ttg ttc atc tac tac cac aat tac acg gag gag gag tac gag gag tac tac tac tac gag gag tac tac</td></td>	agt cgg acc cca gaa tac tac caca aca ged ggc ttg ttg thg stac cca gad tac tac cca ggd ttg ttg ttg stac cca gad tac tac ttg stac stac	agt cgg ccg cca gaa tac tac cca gaa tac cca ggc tgg tgg atc atg aac cca gaa tac cca gaa cca cca gaa cca cca gaa ccc cca gaa ccc cca gaa ccc gaa ccc cca gaa gcc ccc tac tac cca agg ccc ccc tac tac ccc gag ccc ccc dac ccc gag ccc ccc gag ccc gag ccc ccc gac cca gac cca gac cca gac ccc gac cca gac cca gac cca gac cca <td>agt cgg acc cga tac tac cac aat gct ggc ttg ttc atc tac tac cac aat tac acg gag gag gag tac gag 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RAW SEQUENCE LISTING DATE: 12/16/2005
PATENT APPLICATION: US/10/559,647 TIME: 15:39:57

Input Set : A:\ISPH0595USASEQ.txt

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263			775					780					785				
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	Cys		Asp	Ala	Glu	Gly	Thr	Ala	Val	Ala	Pro		Thr	Val	Thr	Pro	
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271						810					815					820	0550
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	Pro	GIA	Val	Gin		Cys	Tyr	HIS	GIY		GIY	Gin	ser	ıyr	_	GIA	
275					825					830	.				835		2601
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276 279	THE	ıyı	ser	840	IIII	Val	Thr	GIY	845	IIII	Cys	GIII	AIA	850	Ser	Ser	
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293	acg	caa	tgc	tca	gac	gca	gaa	ggg	act	gcc	gtc	gcg	cct	ccg	act	gtt	2793
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298	Thr	Pro	Val	Pro	Ser	Leu	Glu	Ala		Ser	Glu	Gln	Ala	Pro	Thr	Glu	
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	_						act	_			_		_		_		2937
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307	+	950	a+~			a aa	955 tcg	ast	204	000	200	960	~	+ > a	+ > 0	002	2985
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	965	SEI	Mec			970				Arg			Giu	TYL	_	980	
		act	aac				aac						gat	act			3033
		_		_		_	Asn									_	5055
315			~~ <i>I</i>		985			-1-	-15	990					995		
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							Arg										
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VERIFICATION SUMMARY

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,647

TIME: 15:39:58

Input Set : A:\ISPH0595USASEQ.txt

Output Set: N:\CRF4\12162005\J559647.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:1208 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4